Menlo Park Notebook #244 [N-81-02-18]

This notebook covers the period February-March 1881. The entries are by Francis Jehl and relate to resistance tests of experimental lamps. The label on the front cover is marked "Experimental Lamps" and "Francis Jehl." There is an index on the inside front cover. The book contains 282 numbered pages.

Index.

Experimental Lamps.

Order No 5 = 186 to 193, 196, 197, 199, 200.
" " 6 = 182, 184, 185.
" " 12 = 198, 201.
" " 20 = 181, 194, 195.
" " 39 = 202 to 220.
" " 192 = 54 to 101.
" " 195 = 37 to 53.
" " 194 = 148.
" " 195 = 149.
" " 196 = 150.
" " 198 = 102 to 147.
" " 202 = 1 to 3.
" " 221 = 231 to 266.
" " 222 = 151 to 173.
" " 10×17 = 4 to 36, 183.
Dr. Maick's Lot = 221 to 230.
Graphite " = 174 to 180.
Cigular " = 267 to 283.

Feb. 18, 1881.
Order 202 - 104½ V
16(A)

1

113.40 V 48 e

256 d
7.703 R

y fig

Index.

Experimental Lamps.

Order No 5 – 186 to 193, 196, 197, 199, 200.
" " 6 – 182, 184, 185.
" " 12 = 198, 201.
" " 20 = 181, 194, 195.
~~" " 39 = 202 to 220~~

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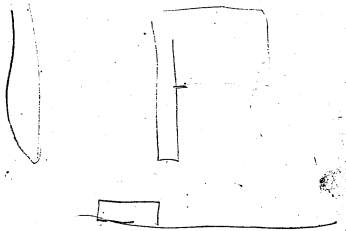
" " 10×17 = 4 to 36, 183.
Dr. Maidi's Dot = 221 to 230.
Graphite " = 174 to 180.
Regular " = 267 to 283.

Feb. 18, 1881.
Order 202 – 104½ V
16(A)

113.40 V 48 C
256 0
7.700 A

busted by flug



Feb. 18, 1881.
Order 202—101½ V
8B

Meter 46 C

12500
8100 R

200 / 2 0 6 6 0
1 0 3 60
200

104
130
3120
104
115 / 1 3 5 2 0 / 117
115
202
115
870
805
65

118
104
14 Ohms inserted.

Feb. 18, 1881.
Order 202—109 V
8A

118/25 46 C

12500
9500 R

200 / 2 2 0 6 0
1 1 0 60
200

111
130
3330
111
118 / 1 4 4 3 0 / 122
118
263
236
270
236
34

122
111
11 Ohms inserted.

Feb. 19, 1881.
115 1365 18 C

12560
88-00 Q

200 / 20860
104 60/200

105
130
3150
105
115 / 13650 / 118
115
215
115
1000
920
80

119
105
14 Ohms inserted.

Mar. 3, 1881.
Reflection of E scale.
05/25

18C 495

Mar. 3, 1881.
12 - 10×17

10c 49V

Mar. 3, 1881.
21 - 10×17

10c busted 1

Mar. 3, 1881.
Reflection of ⅔ scale.
3rd ⅔

10C ~~10~~ 49 ✓

Mar. 3, 1881.
11—16×17

10C 49.9 ✓

Mar. 3, 1881.
10 – 10 X 17

10 e 49.9 v

Mar. 3, 1881.
5 – 10 X 17

10 e 48.6 v̄

Mar 3 1881.
20 – 10×17

10C 47.93V

Mar 3 1881.
19 – 10×17

10C 52.65V

Feb. 26 1881.
18 — 10x17.

10e · 48.6v

Feb. 26 1881.
3 — 10x17

10e 49.9v

Mar. 3, 1881.
27 — 10×17

10 C 48.6 V

Mar. 3, 1881.
2 — 10×17

10 C · 48.6 V

Feb. 28 1881.
29 – 10×17

10C 49.9V

Mar. 3, 1881.
28 – 10×17

10C 46.5V

March, 1881.
17 – 10X17

10C 49.27 V

March, 1881.
15 – 10X17

10C 48.60 V

Mar 3, 1881.
1 — 10×17

10C 47.25V

Mar. 3, 1881.
23 — 10×17

10C 47.93V

Mar. 3, 1881.
22 — 10×17

10 C 4 r 16 v

Mar. 3, 1881.
4 — 10×17

10 C 4 9 9 r

Mar. 3, 1881.
7 — 10×17

10 C — 50.6 V

Mar. 3 1881.
9 — 10×17

10 C + 8160 V

Mar. 3, 1881.
10 — 10×17

10 C 49.9 V

Mar. 3, 1881.
13 — 10×17

10 C 48.6 V

Mar. 3, 1881.
14 – 10×17

busted, no
vacuum

Mar. 3, 1881.
26 – 10×17

103 49.95 ✓

Mar. 3, 1881.
22 – 10×17

10C 47,255

Mar. 3, 1881.
21 – 10×17

10C. 48,6V

Mar. 3, 1881.
20 - 10×17

10C [illegible]
[illegible]

Mar. 3, 1881.
19 - 10×17

10C [illegible]

March 3, 1881.

15 - 10 x 17

10 C 47.25

Feb 28 1881.

105 1/2 V - Order 193

118 12 V

12560 R

8100

200 | 20660

103 60

200

4 K C

104

130

3120

104

118 | 13520 | 114

118

172

118

540

472

68

115

104

11 Chemisinetto.

Feb. 25, 1881.
Order 193 – 111½ v
25

120.82 v

18540
3700 R

200 | 22540
11 | 2 1140
200

48 0

113
130
3390
113
121 | 14690 / 121
121 113
2569
2422
170
121
49

8 Chins inserted.

Feb. 25, 1881.
Order 193 – 103½ v
3

713.40 v

18540
3900 R

200 | 22740
11 | 3 1140
200

48 0

113
130
3390
113
113 | 14690 / 130
113 114
339
339
0

16 Chins inserted.

Feb. 25/1881.
Order 193-106½ U
18

114.07 V

18840
2500 R
21340

4 V C

200/21340
106 140
200

107
130
3210
107
114/13910 122
114 107
251 15 Chins inserted.
228
238
228
2

Feb. 25/1881.
Order 193-106½ U
28 (A)

119.47 V

18840
3500 R
22340

4 8 C

200/22340
111 140
200

112
130
3360
112
119/11560 122
119 112
266 10 Chins inserted.
238
280
238
42

Feb. 28/1881.
Order 193-104 U
5

115 12 U

18840
3900 A
22740
48 C

200/22740
113 140
200

114
130
3420
114
118/14820/125
118
302
236
660
590
70

126
114
12 Chun inverted.

Feb. 28/1881.
Order 193-105 U
22

121 50 U

18840 A
200
21840
48 C

200/21840
109 140
200

109
180
3270
109
122/14170/116
122
192
122
750
732
18
109
7 Chun inverted.

Feb. 28, 1881.
Order 193 – 105½ V
2

120.82 V

18840
3600 R
22440
48 C

200 | 22440
112 | 440
200

112
130
3360
112
121 | 14560 | 120
121 | 112
246
242
40

8 Ohms inserted.

Feb. 28, 1881.
Order 193 – 109½ V
26

122.14 V

18840
3400 R
48 C

200 | 22240
111 | 40
200

111
130
3330
111
122 | 14430 | 118
122 | 111
228
122
1010
976
34

7 Ohms inserted.

Feb. 28 1881.
Order 193-105 U
4

122,85 V

18840 U
4200 R
23040

48 e

200/23040
115 40
200

115
130
3450
115
123/14950/121
123
265
244
210
123
97

122
115
7 Chime inserted.

Feb. 28 1881.
Order 193-106½ U
30

122,85 V

18840 U
4200 R
23140

48 e

200/23140
115 140
200

116
130
3480
116
123/15080/122
123
278
246
320
246
74

123
116
7 Chime inserted.

Feb. 28, 1881.
Order 193 – 104½ Q
13

118.12 V

14540
2600 R
21440

48 C

200 / 21440
102 40
200

102
130
3060
102

118 / 13260 / 112
118 102
146 10 Chme inverted.
118
280
236
44

Feb. 28, 1881.
Order 193 R — 111½ C
15

124.83 V

18840
52000 R
24040

48 C

200 / 24040
120 40
200

120
130
3600
120
125 / 15600 / 124
125
310
250
600
500
100

125
120
5 Ohms inserted.

Feb. 28, 1881.
Order 193 — 115½ C
16

128.25 V

18840
40000 R
22840

48 C

200 / 22840
114 40
200

114
130
3420
114
128 / 14820 / 115
128
202
128
740
640
100

116
114
2 Ohms inserted.

Feb. 28, 1881.
Order 193 – 102½ V
9

116.10 V

18640
2300 R

48 C

200 / 21140
105 140
200

106
130
3180
106
116 / 13786 / 118
116
218
116
1020
928
92

119
106
13 Ohms inserted.

Feb. 28, 1881.
Order 192 – P 650
105½ V – 6B

114.75 V

18640
3400

22240

48 C

200 / 22240
111 40
200

111
130
3330
111
115 / 14430 / 125
115
293
230
630
575
55

14 Ohms inserted.

Feb. 25, 1881.
Order 192 – R 267
105 V – C.A.

113 40 V.

18 8 4 0
1 0 0 0

19 8 4 0

48 C

200 / 19840
99 40/200

99
130
2970
99
113 / 12870 / 113
113
157
113
440
339
101

114
99
15 Ohms inserted.

Feb. 26, 1881.
Order 192 – R 280
106 V – 14 A

114.75 V

18 8 4 0
2 0 0 0

20 8 4 0

48 C

200 / 20840
104 40/200

104
130
3120
104
115 / 13520 / 117
115
202
115
870
805
65

118
104
14 Ohms inserted.

Feb. 28, 1881.
Order 192 — R 260°
107½ V — 15 A

114.75 V

18840
9900 R
19740

48 C

200/19740
98140
200

99
130
2970
99
115/12870/111
115
137
115
220
115
105

112
99
13 Ohms inserted.

Feb. 28, 1881.
Order 192 — R 670
106 V — 16 A

113.40 V

18840
11000 R
19940

48 C

200/19940
99140
200

100
130
113/13000/115
113
170
113
570
565
5
100
15 Ohms inserted.

Feb. 28, 1881.
Order 192 – R 650
108½ V – 25 A

117.45 V

18840
2300 R

200 / 21140
105 / 140
200

48 C

106
130
3180
106
117 / 13780 / 117
117
208
117
910
819
91

118
106
12 Ohms inserted.

Feb. 28, 1881.
Order 192 – R 1000
110½ V – 28 A

118.12 V

18840
2800 R

21640

48 C

200 / 21640
108 / 40
200

108
130
32240
108
118 / 14040 / 118
118
224
118
1060
944
116

119
108
11 Ohms inserted.

Feb. 26 1881.
Order 192 – R 280
109 V – 21 A

114.07 V

18840
1400 R
20240
48 C

200 / 20240
101 / 40
200

101
130
3030
101
114 / 13130 / 115
114 / 101
173
114
590
570
20

14 Ohms inserted.

Feb. 26 1881.
Order 192 – R 290
114½ V – 14 B

111.34 V

18840
1400 R
20240
48 C

200 / 20240 / 1
101 / 40
200

101
130
3030
101
111 / 13130 / 118
111 / 101
203
111
920
888
32

17 Ohms inserted.

Feb. 26 1881.
Order 192 – R 1000
110½ V – 16 A

114.07 V
18840
3100 R
21940
48 C

200 / 21940
109 140
200

110
130
3300
110
114 / 143000 / 125
114
290
228
620
570
50
110
15 Ohms inserted.

Feb. 28 1881.
Order 192 – R 670
109 V – 16 B

115.48 V
18840
2400 R
4 C

200 / 21240
106 40
200

106
130
3180
106
115 / 13780 / 119
115
228
115
1130
1035
95
120
106
14 Ohms inserted.

Feb. 28/1881.
Order 192 – R 685
111 U – 8 A

121150 U

18540
5700 R

239400

48 C

200/239400
119 140
200

120
130
3600
120
122/15600/127
122
340
244
960
854
106

128
120

8 hours inserted.

Feb. 1881.
Order 192 – R 280
111½ U – 11 A

118112 U

18540
2200 R

21040

H R C

200/21040
105 40
2100

105
130
3150
105
115/13650/115
115
195
115
670
575

116
105
11 hours inserted

Feb. 28, 1881.
Order 192 – R 245
112½ – 7A

118.125

18840
1600 R

48 e

118.8

18840
1.200 R

20040

48 e

200/20040
100 40
200

100
130

119/13000/109
119 108
1100
1071
29

9 Chines inverted.

Feb. 28, 1881.
Order 192 – R 710
109U – 17A

118.12

18840
1600

200/20490
102 90

48 e 200

103
130
3690
103

118/13390/113
118
159
118
410
354
56

114
103
11 Chines inverted.

Feb. 1881.
Order 192 - R 950
104 U - 26 A

No connection

Feb. 28 1881.
Order 192 - R 260
111 U - 25 B

112.72 V

~~16840~~

12560
6200 R

18760
48 C

200 / 18760
93 160
200

94
130
2820
94
113 / 12220 / 108
113 97
9204 11 Cinc. incertos.
16

Feb. 25 1881.
Order 192 - R 295
104 V - 12 A

114.75 V 48

12560
7500 R

200 / 19960
99 160
200

97
130
2910
97

115 / 12610 / 109
115
1110
1035
75

110
97
13 Ohms inserted.

Feb. 25 1881.
Order 192 - R 730
117 V - 11 B

118.12 V 48 C

12560
9000 R

200 / 21560
107 160
200

108
130
3240
108

118 / 14040 / 118
118
224
118
1060
944
116

114
108
11 Ohms inserted.

Feb. 28 1881.
Order 192 - R 255
110½ U - 5B

115.485 48C

12560
7500 R

200 / 20060
100 60
200

100
130

115 / 13000 / 113
115 100
150 13 Chines inserted.
115
350
345
5

Feb. 28 1881.
Order 192 - R 820
108 U - 17B

110.62 V 48C

12560
7700 R

200 / 20260
101 60
200

101
130
3030
101

111 / 13130 / 118
111 101
203 17 Chines inserted.
111
920
888
32

Feb. 28 1881.
Order 192 - R365
106½ U-7B

119.47 v 48c

12560 R
9100

200 / 21660
108 60
200

108
130
3240
108
119 / 14040 / 117
119
2141
119
950
833
117

118
108
10 Chines inserted.

Feb. 28 1881.
Order 192 - R355
105½ U-19A

121.50 v 4v

12560 R
7800

200 / 20360
101 160
200

102
130
3060
102
122 / 13260 / 108
122
1060
976
84
122

109
102
7 Chines inserted

Feb. 25 1881.
Order 192 - R330
105½ U - 13

116.77 r 48 c

12560
7800 R

200/20360
101 180
200

102
130
3060
102
117/13260/113
117 102
156 14 Chins inserted.
117
390
351
39

Feb. 26 1881.
Order 192 - R360
101 U - 2

114.75 r 48 c

12520
7300 R

200/20860
104 60
200

104
130
3120
104
115/13520/117
115 118
202 104
115 14 Chins inserted.
870
805
65
115

Feb. 28, 1881.
Order 192 – R 365
105½ V – 14 C

117.45 V 48 C

12560 R
92000
200 | 21760
103 160
200
104
180
3120
104
117 | 13520 | 115
117
182
117
650
585
65

116
104
12 Ohms inserted

Feb. 28, 1881.
Order 192 – R 350
117½ V – 20 A

126.22 V 248 C

12560 R
~~9000~~
200 | 20560
102 160
200
103
180
3090
103
126 | 13390 | 106
126
790
756
34
126

3 Ohms inserted

Feb. 28 1881.
Order 192 - R 840
106 V - 28 B

114,755 48 C

12560
6100 R

200 / 19260
96 60
200

97
130
2910
97

115 / 12610 / 109
115
1110
1035
75
115

110
96
14 Ohms inserted.

Feb. 28 1881.
Order 192 - R 330
106 V - 19 B

121,505 48 C

12560
7300 R

200 / 19860
99 60
200

99
130
2970
99

122 / 12870 / 105
122
670
610
60
122

99
6 Ohms inserted.

Feb. 28, 1881.
Order 192-R 345
109 V-21 B

118,125 48C

18840
3700 R

200/22540
112 140
200

113
130
3390
113

118/14690/124
118
289 125
236 113
530 12 Ohms inverted.
472
58
118

Feb. 28, 1881.
Order 192-R 320
105 V-27 (A)

114,175 48C

1500
18840 R

200/20340
101 140
200

102
180
3060
102

115/13260/115
115 102
176 13 Ohms inverted.
115
610
575
35

Feb. 28, 1881.
Order 192 – R 340
101 U – 20 B

114.07 V 48 C

18840
190 0 R

200 / 20740
103 140/200

104
130
3120
104
114 / 13520 / 118
114
212
114
980
912
68
114

119
104
15 Ohms inserted.

Feb. 28, 1881.
Order 192 – R 350
106 U – 27 (B)

116.10 48

18840
170 0 R

200 / 20540
102 140/200

103
130
3090
103
116 / 13390 / 115
116
179
116
630
580
50
116

103
12 Ohms inserted.

Feb. 25, 1881.
Order 192 – R325
950 – 14 D

116.10 V 48 C

1900
18840 R

200 / 20540
102 140
200

103
130
3090
103
116 / 13390 / 115
116 103
179 12
116
630
580
50
116

12 Ohms inserted.

Feb. 25, 1881.
Order 192 – R385
108½ V – 15 B

120.82 V 48 C

18840 R
1700

200 / 20540
102 170
200

103
130
3090
103
121 / 13390 / 110
121
129 111
121 103
80
121

8 Ohms inserted.

Feb. 28, 1881.
Order 192 — R 860
106½ V — 160

117,145 V 48 C

~~17~~ R

1900
18840

200 | 20740
103 140/200

104
130
3120
104
117 | 13520 | 115
117
182
117
650
585
65
117

116
104
12 Chins inserted.

Feb. 28, 1881.
Order 192 — R 200
102 V — 29

11407 V

18840
2200 R

200 | 21040
105 40/200

105
130
3150
105
114 | 13650 | 119
114
225
114
1110
1026
84
114

120
105
15 Chins inserted.

Feb. 25, 1881.
Order 192-R 315
High-28 B

130 V 33 C

18840
2700 R

200 / 21540
107 140
200

108
130
3240
108
130 / 14040 / 108
130
1140
1140

Feb. 25, 1881.
Order 192-R 333
110 V - 4A

121.50 V 48

18440 R
4800

200 / 23740
118 140
200

119
130
3570
119
122 / 15470 / 126
122
327
244
830
732
98
127

127
119
8 Can winnow too.

Feb. 28, 1881.
Order 192-R 350
105½ V-16D

116.77 V 48 C

18840
2900 R

200 / 21740
108 140
200

109
130
3270
109

117 / 14170 / 121
117 109
247 12 Ohms inserted.
234
130
117
13
117

Feb. 28, 1881.
Order 192-R 365
108½ V-24

115.43 V 48 C.

18840
2900 R

200 / 21740
108 140
200

109
130
3270
109

115 / 14170 / 123
115 109
267 14 Ohms inserted.
230
370
345
25
115

Feb. 25, 1881.
Order 192 – R355
103 V – 30

114.07 V 48 C

18840
900 R

200 / 19740
98 140
200

99
130
2970
99
114 / 12870 / 112
114
147
114
330
228
102
114

113
99
14 Ohms inserted.

Feb. 7, 1881.
Order 192 – R340
105½ V – 123

113.40 V 48 C

18840
2200 R

200 / 21040
105 40
200

105
130
3150
105
113 / 13650 / 120
113
235
226
90
113

121
105
16 Ohms inserted.

Feb. 26 1881.
Order 192 – R345
106 U – 1A

114.75 V 48 C

18840 R
1600

200 / 20440
102 40/200

102
130
3060
102

115 / 13260 / 115
115 102
176 13 Ohms inserted.
115
610
575
35
115

Feb. 26 1881.
Order 192 – R305
107 U – 5 C

113.40 V 48 C

18840 R
200.

200 / 20040
100 40/200

100
130
3000
100

113 / 13000 / 115
113 100
170 15 Ohms inserted.
113
570
565
5
113

Feb. 28, 1881.
Order 192 – R 320
106½ Ω – 10 B

118.12 V 48 C

18640 P
1960

200/20 7 4 0
10 3 140
200

104
130
3120
104
118/35 20/114
118
172
118
540
472
68
118

115
104
11 Ohms inserted.

Feb. 28, 1881.
Order 192 – R 340
111½ Ω – 5 D

121.50 V 48 C

18840 P
1100

200/199.40
99 140
200

130
122/13000/106
122
800
732
68
122

107
100
7 Ohms inserted.

Feb. 28, 1881.
Order 192-R 350
112½ Ω - 1B

120.15 r 48 C

18540 R
2500

200/21340
106 140
200

107
130
3210
107

120/13910/115
120
191
120
710
600
110
120

116
107
9 Ohms inserted.

Feb. 28, 1881.
Order 192-R 350
108½ Ω - 4B

114.75 r 48 C

18548 R
2300

200/21140
105 140
200

106
130
3180
106

115/13780/119
115
228
115
1130
1035
95
115

120
106
14 Ohms inserted

Feb. 28, 1881.
Order 198-R 450
112½ U-11

120.15 r 45c

18540 R
2100

200/20940
104 140
200

105
130
3150
105
120/13650/113
120
165
120
450
360
90
120

114
105
9 Chs inserted.

Feb. 28, 1881.
Order 198-670
110 U-9A

114.75 r 45c

18540 R
1700

200/20540
102 140
200

103
130
3090
103
115/13390/116
115
189
115
740
690
50
115

103
13 Chs inserted.

Feb. 28, 1881.
Order 198 – R 500
114½ U – 4

118.125 r 48 C

15440 R
2950

200 | 21740
108 140
200

109
130
3270
109

118 | 14170 | 120
118 109
237 11 Chins inserted.
236
10
118

Feb. 28, 1881.
Order 198 – R 560
High – 1 A

128.125 r 48 C

15440 R
2650

200 | 21440
107 40
200

107
130
3210
107

128 | 13910 | 108
128 109
1110 107
1024 2 Chins inserted.
86
128

Feb. 28, 1881.
Order 198 – R 730
103 U – 2 A

120115 V 48 C

18840 R
3400

200 | 2 2 2 4 0
1 1 1 40
200

111
130
3330
111
120 | 14430 | 120
120 111
2430 9 Chins inserted.
2400
30
120

Feb. 28 1880.
Order 198 – R 650
110½ U – 16

113.40 48 C

18840 R
2300

200 | 2 1 1 4 0
1 0 5 140
200

106
130
3180
106
113 | 13780 | 121
113 122
2480 106
2260 16 Chins inserted.
2200
113
107

Feb. 28, 1881.
Order 198 – R395
111/2 U – 13 A

114.75 V 48 C

18840 R
1760

200 | 19940
99 140
200
100
180

115 | 13000 | 113
115 100
150 13 Ohms inserted.
115
350
345
5
115

Feb. 28, 1881.
Order 198 – R560
114 1/2 U – 3 A

118.80 V 48 C

18540
8200 R

20 | 22140

110 40
200

110
130
3300
110

119 | 14300 | 120
119 110
240 10 Ohms inserted.
238
20
119

Feb. 28, 1881.
Order 198 – R 800
110½ U – 8 A

116.10 V 48 e

18840 R
2900

200 / 2 1 7 4 0
1 0 3 140
200

104
130
3120
104
116 / 1 3 5 2 0 / 116
116
192 117
116 104
760 13 Ohms inserted.
696
64
116

Feb. 28, 1881.
Order 198 – R 590
112½ U – 2 B

116.10 V 48 e

2900 U
18840 R

200 / 2 1 7 4 0
1 0 3 140
200

103
130
3090
103
116 / 1 3 9 0 / 115
116 104
179 11 Ohms inserted.
116
630
580
50
116

Feb. 28, 1881.
Order 198 – R 430
110½ V – 7 A

114.07 V 48 C

18540 R
1300

200 / 20140
100 140
200

101
130
3030
101

114 / 13130 / 115
114 101
173
114
590
570
20
114

14 Ohms inserted.

Feb. 28, 1881.
Order 198 – R 670
104½ V – 1 B

114.07 V 48 C

18540 R
2000

200 / 21840
109 40
200

109
130
3270
109

114 / 14170 / 124
114 109
277
228
490
456
34
114

15 Ohms inserted.

Feb. 28, 1881
Order 198 — R550.
114½ U - 5 A

118,125 V 48 C

18540 R
2700

200 / 21540
107 140
200

108
130
3240
108

118 / 14040 / 118
118
224
118
1060
944
116
118

119
108
11 Ohms inserted.

Feb. 28, 1881.
Order 198 — R445
103½ - 12 A

108,1 V 48 C

18840 R
1300

200 / 20140
100 140
200

101
130
3030
101

108 / 13130 / 121
108
233
216
170
108
62
108

122
101
21 Ohms inserted.

Feb. 28 1881.
Order 198 – R 600
107½ U – 15 A

111.34 V 48 C

18840 R
2000

200 / 2 0 8 4 0
104 40 / 200

104
130
3120
104

111 / 13520 / 121
111
242
222
200
111
89
111

122
104
18 Ohms inverted.

Feb. 28 1881.
Order 195 – R 615
113½ U – 15 B

120.82 V 48 C

18840 R
4300

200 / 23140
115 140 / 200

116
180
3480
116

121 / 15080 / 124
121
298
242
560
484
76
121

125
116
9 Ohms inverted.

Feb. 28, 1881.
Order 198-R 650
106 U-9B

110.02 U 48 C
18840 R
1600

200 / 20540
102 140
200

102
130
3060
102

110 / 13260 / 120
110
226 121
220 103
60 18 Chains inserted.
110

Feb. 25, 1881.
Order 198-R 510
113 U-8B

121.50 U 48 C
18840 R
4200

200 / 23040
115 40
200

115
130
3450
115

122 / 14950 / 122
122 115
275 7 Chains inserted.
244
310
244
66
122

Feb. 28 1881.
Order 198 – R600
108 V – 10 A

111.34 V 48 C

18840 P
1200

200 | 200 40
100 40
200

100
180

111 | 18000 | 117
111 100
190 17 Ohms inserted.
111
790
777
13
111

Feb. 25 1881.
Order 198 – R612
112½ V – 29

117.145 V 48 C

18840 P
3300

200 | 2 2 1 40
1 1 0 120
200

111
180
3300

117 | 1144 | 123
117 111
273 12 Ohms inserted
234
390
351
39
117

Feb 28 1881.
Order 198 – R 650
High – 20

130 V 48

18840 R
4600

200 / 23440
117 40
3.00

117
180

3510
117

130 / 15210 / 117
130

221
180

910
910

Feb 28, 1881.
Order 198 – R 620
109½ V – 22

115143 V 480

18840 R
2300

200 / 21140
100 200

101
130

3030
101

115 / 13130 / 114
115 101
13 Crime inserted.

163
115

480
460

20
115

Feb. 28, 1881.
Order 195 — R605
106 V — 13 B

111.34 V 48 C

188 40 R
12 00

200 / 20 0 40
100 40
200

100
130
111 / 13 000 / 117
111 100
190 17 Ohms inserted.
111
790
777
13
111

Feb. 28, 1881.
Order 195 — R410
106½ V — 30 A

113.40 V 48 C

188 40 R
13 00

200 / 20 1 40
100 140
200

101
130
3030
101
113 / 13 130 / 116
113 101
183 15 Ohms inserted.
113
700
678
22
113

Feb. 26 1881.
Order 198 - R590
High - 3 B

130 V ~~26~~ 28 C

18840
~~5800~~ R

200 / 2 3 8 4 0
1 1 9 40
200

119
130
3570
119
130 / 15470 / 119
130
247
130
1170
1170

Feb. ~~28~~ 1881.
Order 198 - R460
1080 - 13 C

1081 V 48 C

18840
2500 R

200 / 2 1 3 4 0
10 1 140
200

102
130
3060
102
108 / 13260 / 122
108
246
216
300
216
84
108

123
102
21 Ohms inserted.

Feb. 28 1881.
Order 198 - R 490
108 U - 12 B

112.72 V 48 C

18840 R

1100

200 / 19940
99 140
200

100
130

113 / 13000 / 115
113 100
170 15 Ohms inserted.
113
570
565
5
113

Feb. 28 1881.
Order 198 - R 590
106½ U - 10 B

113.40 V 48 C

18840 R

1000

200 / 19840
99 40
200

99
130
2870
99

113 / 12870 / 113
113 99
157 14 Ohms inserted.
113
340
339
1
113

Feb. 28 1881.
Order 198 - R585
105 - 3 C

112.72 V 48 C

18840 R
1200

200 / 20140
100 140
200

101
130
3030
121

113 / 13130 / 116
113 101
183 15 Ohms inserted.
113
700
678
22
113

Feb. 28 1881.
Order 198 - R570
111½ V - 130

119.47 V 48 C

18840 R
2900

200 / 21740
108 140
200

109
130
3270
109

119 / 14170 / 119
119 109
227 10 Ohms inserted.
119
1080
1071
9
119

Feb. 27 1881.
Order 198 – R560
103 U – 3 C

116177 V 48 C

18540 R
3700

200/22 5540
112 140
200

113
130
3390
113
117/14690/125
117
299 126
234 113
650 13 Ohms inserted.
585
65
117

Feb. 27 1881.
Order 198 – R565
110½ U – 9 C

115148 V 48 C

18540 R
2700

200/21 5540
107 140
200

108
130
3240
108
115/14040/122
115 108
254 14 Ohms inserted.
230
240
230
10
115

Feb 6th 1881.
Order 198 - R560
High - 24

125550 V 48 C
18840 R
1700

200 / 20540
102 140
200

103
130
3090
103

126 / 13390 / 106
126 103
790
756
34
126

3 Ohms inserted.

Feb 6th 1881.
Order 198 - R560
103 Ω 22

113400 V 48 C

1800
18840 R

200 / 20640
103 140
200

103
130
3090
103

113 / 13390 / 118
113 103
209
118
960
904
56
113

15 Ohms inserted.

Feb. 28, 1881.
Order 198-R 540
109 J-B7

118.12 V 48 C

18840
3100 R

200 / 21940
109 140
200

110
130
3300
110

118 / 14300 / 121
118 110
250 11 Chins inserted.
236
140
118
22
118

Feb. 28 1881.
Order 198-R 265
105 U-C8

113.40 V 48 C

18840
2600 R

200 / 21640
108 40
200

108
130
3240
108

113 / 14040 / 124
113 108
274 16 Chins inserted.
226
480
452
28
113

Feb. 28, 1881.
Order 198 - R585
107 V - 26

114.75 V 48 C

18840 R
200

200/19640
98 40/200

98
130
2940
98

115/12740/110
115
124
115
90
115

111
98
13 Ohms inserted.

Feb. 28, 1881.
Order 198 - R720
109½ V - 15 C

116.77 V 48 C

18840 R
2800

200/21640
108 40/200

108
130
3240
108

117/14040/120
117
234
234
0

108
12 Ohms inserted.

Feb. 7, 1881.
Order 198-R575
1050U-70C

116,10V 48C

18840 U
2500 R

```
200/21340
    106 140
        200
     107
     130
    3210
     107
116/13910/119
    116
     231     120
     116     107
     1150     13 Ohms inserted.
     1044
      106
      116
```


Feb. 7, 1881.
Order 198-R370
1115-18A

120,82V 48C

18840 U
1700 R

```
200/20540
    102 140
        200
    103
    130
   3090
    103
121/13390/110
    121
     129     111
     121     104
      80      7 Ohms inserted.
      121
```

Feb. 28, 1881.
Order 198-R575
109 V-30 B

114.75 V 48 C

188.40
19 00 R

200 / 20740
103 140
200

104
130
3120
104

115 / 13520 / 117
115
202
115
870
805
65
115

118
104
14 Ohms inserted.

Feb. 28, 1881.
Order 198-R585
106 V-5 B

114.07 V 48 C

188.40
7001 R

200 / 19540
97 140
200

98
130
2940
98

114 / 12740 / 111
114
134
114
200
114
86
114

112
98
14 Ohms inserted.

Feb. 28, 1881.
Order 198 - R 560
113½ V - 7C

121.50 V 4 & C
14 & 40 R
2800

200 / 21 640
108.40
200

108
130
3240
108

122 / 14040 / 115
122 108
184
122
620
610
10
122

7 Ohms inserted.

Feb. 28, 1881.
Order 198 - R 675
111 V - 7D

114.07 V 4 & C
18540
8200

200 / 22040
110.40
200

110
130
3300
110

114 / 14300 / 125
114 110
290
228
620
570
50
114

15 Ohms inserted.

Feb. 25, 1881.
Order 198 – R 580
112/2 V – 28

122.17 V 48 e

18840 R
2200

200/21040
105 40/200

105
130
3150
105

122/13650/111
122
145
122
230
122
108
122

112
105
7 Chins inserted.

Feb. 25, 1881.
Order 198 – R 710
114 V – 18 B

122.17 V 48 e

18840 R
2200

200/21040
105 40/200

105
130
3150
105

122/13650/111
122
145
122
230
122
108
122

112
105
7 Chins inserted.

Feb. 28, 1881.
Order 194 - R 278
101 V - 17

121150 V 48 C

18840
26000 R

200 / 21440
107 40/200

107
130
3210
107
122 / 13910 / 114
122 107
171
122
490
488
2
122

7 Ohms inserted.

Feb. 28, 1881.
Order 195 - R 240
105 V - 29

118112 V 48 C

18840
4600 R

200 / 23440
117 40/200

117
130
3510
117
118 / 15210 / 128
118
341
236
1050
944
106
118

129
117
12 Ohms inserted.

Feb. 28, 1881.
Order 196 – R 305
114/2 V – 30

1305 34 C

18840 R
9150

200 / 27940
139 140/200

140
130
4200
140

130 / 18200 / 140
130
520
520
0

Feb. 26/1881.
Order 222 – R 396
No: 1

11,345

2540 R
2540

200 / 2 1 3 4 0
106 140/200

107
130
3210
107

111 / 13910 / 125
111
281
222
590
555
35

125
107
18 Chins inverto.

Feb. 28, 1881.
Order 222—R385
No. 2

111 / 3 4 5

18840
1000 R
19840

48 C

200 / 19840
99 40/200

100
130
111 / 13000 / 117
111 99
190 18 Ohms inverted.
111
790
777
13

Feb. 28, 1881.
Order 222—R333
No. 3

109 / 1 4 4 0

14440 R
1000
19440

4 8 C

200 / 19440 / 97
1800
1440
1400
40

97
130
2910
97
109 / 1261 0 / 115
109
171
109
620
545
95

116
97
19 Ohms inverted.

Feb. 28, 1881.
Order 222—R 399
No. 4

113.40 V

18440 R
17000 R

200 | 20540
48 102 140
200

103
130
3090
103
113 | 13390 | 118
113
209
113
960
904
56

119
102
17 Ohms inserted.

Feb. 28, 1881.
Order 222—R 391
No. 5

114.75 V

18600 R
17000 R

200 | 20540
48 102 140
200

130
103
115 | 13390 | 116
115
189
115
740
690
50

117
103
14 Ohms inserted.

Feb. 26 1881.
Order 222-R391
No. 6

110.52 V

R

56000
12560 R
200 / 118160
48 9 6 160
200

91
130
2730
91
110 / 11830 / 107
110
830
780
50

108
91
17 Ohms inserted.

Feb. 26 1881.
Order 222-R384
No. 7

111.34 V

12560 R
200 / 19460
48 9 60
200

98
130
2940
98
111 / 12740 / 114
111
164
111
530
444
86

115
98
17 Ohms inserted.

Feb. 28/881.
Order 222-R333
No. 8

105.85 V

12500 R
Hour

200 / 17360
1486 (160 / 200)

87
130
2610
87
106 / 13110 / 106
106
718
636
74

107
87
20 Ohms inserted.

Feb. 28/881.
Order 222-R185
No. 9

113.40 V

9500 R
12360

200 / 22060
1106 (60 / 200)

111
130
3330
111
113 / 14430 / 127
113
313
226
870
791
79

128
111
17 Ohms inserted.

Feb. 1881.
Order 222-R374
No. 10

118.12 V

8900 R
12560 R

200 / 2 1 4 6 0
48 / 0 7 6 0
200

108
130
3240
108

118 / 1 4 0 4 0 / 118
118
224
118
1060
944
116

119
108
11 Chains inserted.

Feb. 2 1881.
Order 222-R400
No. 11

114.75 V

12560
7600 R

200 / 2 0 3 6 0
48 / 1 6 1 1 6 0
200

102
130
3060
102

115 / 1 3 2 6 0 / 115
115
176
115
610
575
35

102
13 Chains inserted.

Feb. 2 1881.
Order 222 – R 399
No. 12

7800
12360

200 / 12 0 3 6 0
180 1 160
200

102
130
3060
102
112 / 1 3 2 6 0 / 118
112 102
206 16 Ohms inserted.
112
940
896
44

Feb. 7 1881.
Order 222 – R 349.
No. 13

108.V

6200
12560

200 / 1 2 5 6 0
48 94 60
200

95
130
2850
95
108 / 1 2 3 5 0 / 114
108 95
155 19 Ohms inserted.
108
470
432
38

Feb. 26 1881.
Order 222-R400
No. 14

112.725

66.3 R
26.3 R

200 | 19160
945 160
200

96
130
2880
96

113 | 12480 | 110
113
118
113
50

111
96
15 Ohms inserted.

Feb. 26 1881.
Order 222-R322
No. 15

106.675

66.00
12.560 R

200 | 19160
485 160
200

96
130
2880
96

109 | 12480 | 114
109
158
109
490
436
54

115
96
19 Ohms inserted.

Feb. 24, 1881.
Order 222 – R349
No. 16

113.40 V

7400

12560

200 | 19960
99 160
200

100
130

113 | 13000 | 115
113 100
170
113
570
565
5

15 Ohms inserted.

Feb. 24, 1881.
Order 222 – R391
No. 17

110.52 V

7500

12500 R

200 | 20060
1100 60
200

101
130
3030
101

110 | 13130 | 119
110 101
213
110
1030
990
40

18 Ohms inserted.

Feb. 2 1881.
Order 222-R318
No. 18

110.02 V

12560
6250 R

200 / 18760
93160
200

94
130
2820
94

110 / 12220 / 111
110
122
110
120
110
10

94
17 Ohms inserted.

Feb. 2 1881.
Order 222-R350
No. 19

106.65 V

12560
5600 R

200 / 18160
93160
200

91
130
2730
91

107 / 11830 / 110
107
113
107
60

111
91
20 Ohms inserted.

Feb. 28 1881.
Order 222-R287
No. 20

108,00 V

5900
12560 R

200 / 118460
489260
200

93
130
2790
93

108 / 12090 / 111
108
129
108
210
108
102

112
93
19 Ohms inserted.

Feb. 28 1881.
Order 222-R318
No. 21

116,10 V

12560
9400 R

200 / 21960
4880 89 160
200

110
130
3300
110

116 / 14300 / 123
116
270
232
380
346
34

110
13 Ohms inserted.

Feb. 26/881.
Order 222-R385
No. 22

111.34 V

7400
12560 R

200 | 11996 0
99 | 160
200

48

100
130
111 | 13000 | 117
111 | 100
190 | 17 Ohms inserted.
111
790
777
13

Feb. 26/881.
Order 222-R185
No. 23

112.72 V

5600
12560 R

200 | 11260
98 | 160
200

48

91
130
2730
91
113 | 11830 | 104
113 | 105
530 | 91
452 | 14 Ohms inserted.
78

Feb 28

No. 4 Graphite

24.97 Volts

$\frac{9100}{2333} = R$

6 ohm

$6 / 14000 / 2333$

$2333 / 9100 / 3$
6999
2101
2333 } = 4 Ohms

~~130 24.97 : 4 : X~~

or

$25.49 : 130 : 4 \quad X$

$25 / 520 / 20$
50
20
25
4
17 Ohms inserted

Graphite No 6

25.65 V

$\frac{9300}{X} = R$

$2333 / 9300 / 3$
6999
2301
2333 } = 4 Ohms.

130
4
$26 / 520 / 20$
52
0
4
16 Ohms inserted.

Problem No 5

27.√

$\frac{9980}{\sim} = R$

2333/9980/4 Ohms resistance.
9332
648
2333

130
4
27/520/19
27
250
243
7
4
15 Ohms inserted.

Problem No 7

27.√

$\frac{9700}{\times} = R$

2333/9700/4 Ohms resistance.
9332
368
2333

130
4
27/520/19
27
250
243
7
4
15 Ohms inserted.

Graphite No 3

22.28 V

8100 R

2333 / 8100 / 3 Ohms resistance.
6999
1101
2333

130
3
22 / 390 / 17
226
170
154
16

18
3
15 Ohms inserted.

Graphite No 8
23

35.10 V

busted burn R

Graphite No 9
busted in Coop.

Mar. 3. 1881.
52 C - 3 (20)
1/19/81 #8

62.15 24 C

12560
120

200 | 12690
63 90
200

63.7
130
18990
63
62 | 18990 | 132
62 63
199 69
186
130
124
6

62.2 : 120 :: 63
120

62 |

68 Ohms inverted.

Mar. 3, 1881.
55½ U-2
1/18/81 #6

24C 62.10 U

6279
5070 R
200/11349
56 149
200

57
130
1710
57
62/7410/119
62
121
62
590
558
32
62

120
57
63 Ohms inserted.

Mar. 3 1881.
53½ U-3
10×17

24C 26.10 U

6279 R
5100
11379

200/11379
56 179
200

57
130
1710
57
26/7410/285
52
57
228
228
208
130
130

Ohms inserted.

Mar. 3, 1881.
54½ V–6
(20)

24C 70.36V

6279
7800 R
200) 14079
70 79/200

89
130
70) 11400) 148
70
340
280
600
560
40
70

149
70
79 Ohms inserted.

Mar. 3 1881.
54½ V–10

24C 63.44V

6279
5900 R
200) 12179
60 179/200

61
130
1830
61
63) 7930) 125
63
163
126
370
315
55
63

126
61
65 Ohms inserted.

Mar. 3, 1881.
52 U – 6
1/18/81 – #5.

24 e 57.33 v

6279
3000
200 / 9279 R
46 79/200

46
130
1380
46
57 / 5980 / 104
57
280
238
42
52

105
46
59 Chins inserted.

Mar. 3 1881.
56½ U – 13

~~24 e 62.77 v 6279 R~~

24 e 62.77 v

6279
5300
200 / 11579 R
57 179/200

58
130
1740
58
63 / 7540 / 119
63
124
63
610
567
43
63

120
58
62 Chins inserted.

Mar. 3 1881.
54½ V – 13

24C 60.07 V 6279 R
3900
200 / 10179
50 179/200

51
130
1530
51
60 / 6630 / 110
60
63
60
30
60

111
51
60 Ohms inserted.

Mar. 3 1881.
50½ V – 14
1/18/18 #5

24C 56.72 V 6279 R
3900
200 / 10179
50 179/200

51
130
1530
51
59 / 6630 / 112
59
73
59
140
118
22
59

51
61 Ohms inserted.

Mar. 3. 1881.
55V – 14

24C. 62.77V 6279 4900 R

200 / 11179
55 179/200

56
130
1680
56
63 / 728 0/115
63
98
63
350
315
35
63

116
56
60 Ohms inserted.

Mar. 3. 1881.
~~48~~ 52V – 14

24C 57.33V 6279 4750 R

200 / 10979
54 179/200

55
130
1650
55
57 / 7150 / 125
57
145
114
310
285
25
57

55
70 Ohms inserted.

Mar. 3, 1881.
58½ V–14

24C 68.17 V 6279
7700
200 | 13979
69 179/200

70
130
2100
70
68 | 9100 | 133
68
230
204
260
204
56
68

134
70
64 Ohms inserted.

Mar. 3, 1881.
50½ V–15
1/18/81–#5

24C 57.38 V 6279
3250 R
200 | 9529
47 129/200

48
130
1440
48
57 | 6240 | 109
57
540
513
27
57

48
61 Ohms inserted.

Mar. 3 1881.
58½ V – 15
(20) 1/20/81 – #12

24c 70.87 V 6279
8050
200 / 14329
71 129/200

72
130
2160
72
71 / 9360 / 131
71
226
213
130
71
59

132
72
50 Ohms inserted

Mar. 3 1881.
50 V – 15 – #10
1/19/81 (20)

24c 59.40 V 6279
4750
200 / 10979
54 170/200

55
130
1650
55
59 / 7150 / 121
59
55
125
118
70
59
11
59

66 Ohms inserted.

Mar. 3 1881.
54V-16-1/18/81.
#5

24C 62.77V 6279 R
4700
200 / 10979
54 179/200

55
130
1650
55
63 / 7150 / 113
63 55
85 58 Ohms inserted.
63
220
189
31
63

Mar. 3 1881.
52V-18-1/18/81.
#5

24C 57.33V 6279
3200
200 / 9479
47 79/200

48
130
1440
48
57 / 6240 / 109
57 48
540 61 Ohms inserted.
513
27
57

Mar. 3, 1881.
63 U – 23 – 1/20/81
#12 (20)

24 C 70.87 V 6279
9500 R

200 / 15779
78 170
200

79
130
2370
79

71 / 18270 / 144
71 79
317 65 Ohms inserted.
284
330
284
46
71

Mar. 3 1881.
52 U – 26 – 1/18/81
#5

24 C 59.40 V 6279
3300 R

200 / 9579
47 179
200

48
130
1440
48

59 / 6240 / 105
59 106
340 48
295 58 Ohms inserted.
45
59

Mar. 3, 1881.
52 V-28

24 C 64113 V

50000
6279 P

200 / 11279
56 79/200

56
130
1680
56
64 / 7280 / 113
64
88
64
240
192
48
64

114
57
57 Ohms inserted.

Mar. 3, 1881.
55½ V-28-(20)
#12-1/20/81.

24 C 63144 V

6279
7200 R

200 / 13479
67 79/200

67
130
2010
67
63 / 8710 / 138
63
67
241
189
520
504
16
63

71 Ohms inserted.

Mar. 3 1881.
106V-13-Order 39
R208

48 C 114.75

18840
2000 R

200 / 20840
104 40/200

104
130
3120
104
115 / 13520 / 117
115
202
115
870
805
65
115

118
104
14 Ohms inserted.

Mar. 3, 1881.
Order 39-R245
105V-17

48 C 124.20V

18840
3200 R

200 / 22040
110 40/200

110
130
3300
110
124 / 14300
115 40/124

115
110
5 Ohms inserted.

Mar. 3, 1881.
Order 39 – R245
106½ V – 16

4 × C 121.50 V

3200
18540 R

200 / 22040
110 40
200

110
130
3300
110
122 / 14300 / 117
122 110
210
122
880
854
26
122

7 Ohms inserted.

Mar. 3, 1881.
Order 39 – R245
107½ V – 23

4 × C 118.125 V

12540
5700

200 / 23840
119 40
200

118
130
3570
119
118 / 15470 / 131
118 119
367 12
354
130
118
12
118

12 Ohms inserted.

Mar. 3, 1881.
Order 39-R 245
102/2 U-11

48C 118,80V 18840R
2200R

200 / 21040
105 40/200

105
130
3150
105
119 / 13650 / 114
119
175
119
560
476
84
119

115
105
10 Ohms inserted.

Mar. 3 1881.
Order 39-R 240
106 U-22

48C 121,15V
18840
4000R

200 / 22840
114 40/200

114
130
3420
114
122 / 14820 / 121
122
262
244
180
122
58
122

114
7 Ohms inserted.

Mar. 3, 1881.
Order 39 – R 240
108½ V – 9 A

48 C 12420 V

18840
5300

200 / 24140
120 140
200

121
130
3630
121
124 / 15730 / 126
124
333
248
8.50
744
106
124

127
121
6 Ohms inserted.

Mar. 3, 1881.
Order 39 – R 275
115½ V 9 B.

130 V 33 C

18840
9900

200 / 28540
142 140
200

143
130
4290
143
130 / 18590 / 143
130
559
520
390
390

Mar. 3, 1881.
Order 39 — R 230
102½ V — 18

4rC 18840 R ~~12 V~~
30000
218 40

114.0 / V

200 / 21840
109 40
200

109
130
3270
109

114 / 14170 / 124
114 109
277
228
490
456
34
114

15 Ohms inserted.

Mar. 3, 1881.
Order 39 — R 245
110½ V — 10

4rC 126.22

18840 R
4000

200 / 22840
114 40/200

114
130
34420
114

126 / 14820 / 117
126
222
126
960
882
78
126

118
114
4 Ohms inserted.

Mar. 3, 1881.
Order 39 – R256
107/2 V = 3

48 C 123,152 V

18840
4900 R

200 / 23740
118 140/200

119
130
3570
119
124 / 15470 / 124
124
307
248
590
496
94
124

125
119
6 Ohms inserted

Mar. 3, 1881.
Order 39 – R195
~~High~~ – 20

32 C 130 V

15840
3000 R

200 / 21840
109 40/200

109
130
3270
109
130 / 14170 / 109
130
1170
1170

Mar. 3 1881.
Order 39-R205
102V-19

48C 120.15V

18840
1500 R

200 / 20640
103 40/200

103
130
3090
103
120 / 13390 / 111
120
139
120
190
120
70
120

112
103
9 Ohms inserted.

Mar. 3 1881.
Order 39-R245
102½V-23

48C 114.75V

18840
1500

200 / 22940
114 140/200

115
130
3450
115
115 / 14950 / 130
115
345
345
0

15 Ohms inserted.

Mar. 3, 1881.
Order 39—R 225
105 V—8

48C 118.12

81 8 40
4 5 0 0 R

200 / 22 9 4 0
114 140/200

115
130
3450
115
118 / 14950 / 126
118
315
236
790
708
82
118

127
115
12 Ohms inserted.

Mar. 3, 1881.
Order 39—R 210
99½ V—17

48C 113.40 V

18 8 40
2 0 0 0 R

200 / 20 8 4 0
1 0 4 40/200

104
130
3120
104
113 / 13520 / 119
113
222
113
1090
1017
73
113

120
104
16 Ohms inserted.

Mar. 3, 1881.
Order 39-R255
107½ U-6

48 C 124205

18840

24500 R

200 / 2 3 3 4 0
116 140/200

117
130
3510
117
124 / 15210 / 122
124
281
248
330
248
82
124

123
117
6 Ohms inserted.

Mar. 3, 1881.
Order 39-R235
119 U-25

48 C 126120

18840

24500 R

200 / 2 3 3 4 0
116 140/200

117
130
3510
117
128 / 15210 / 118
128
241
128
1130
1024
106
128

119
117
2 Ohms inserted.

Mar. 3, 1881.
Order 39 – R225
108½ U – 21

480 124120 C

18840

4000 R

200 | 22840
114 40
200

114
130
3420
114

124 | 14820 | 119
124
242
124
1180
1116
64
124

120
114
6 Chains inserts.

Mar. 4, 1881.
55 U – 11

10 C – 46½ U

Mar. 4 1881.
54½ U-8

10 C — 48 U

Mar. 4 1881.
55½ U-8

10 C — 48.6

Mar. 4, 1881.
54U-9

10 C—45.9

Mar. 4, 1881.
55U-10

10C—47.9

Mar. 4, 1881.
55—6

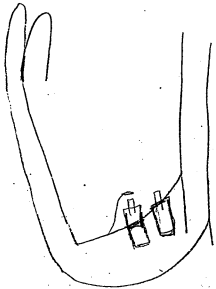
10C—47.9

Mar. 4, 1881.
55U—2

10C—50

Mar. 4, 1881.
55U-12

10C — 48.6



Mar. 4, 1881.
55U-7

10C — 58

Mar. 4, 1881.
550-14

10-C-58

Mar. 8, 1881.
Order 221-#1

42.525 24C

200 4700

41.25 r 48C

4550

200 | 9275

46 75/200

46
130
1380
46
43 | 5980 | 139
43 46
168
129
390
387
3
43

93 Ohms inserted.

Mar. 8, 1881.
Order 221 - #2

130.9 v

Vacuum N. Y.

Mar. 8, 1881.
Order 221 - #3

64.13 v 48 C

6279
3200
200 | 9479
47 79/200

47
130
1410
47
64 | 6110 | 95
576 47
350
320
30
64

48 Ohms inserted.

Mar. 8, 1881.
Order 221 - #4

47.25 V 48 C

200 / 4800
24
130
720
24

47 / 3126 / 66
282 24
300 42 Ohms inserted.
282
18
47

Mar. 8, 1881.
Order 221 - #5

108 V n. 9 Vne
48 C

18840
5000

200 / 23840
119 40
130 200
3570
119

108 / 15470 / 143
108 119
467 24 Ohms inserted.
432
350
324
26
108

Mar. 8, 1881.
Order 221-#6

43205 48C

200 / 4100 R
20 100
200

21
130
630

21
43 / 2730 / 63
258 21
150 42 Chines inserted.
129
21
43

Mar. 8 1881.
Order 221-#7

47125 48C

200 / 5800 R

29
130
870

29
47 / 3770 / 80
376 29
10 51 Chines inserted.
47

Mar. 8, 1881.
Order 221—#8

31.05 VC #8C

200 / 2400 R

12
130
360
12

31 / 1560 / 50
155 / 12
10
31

38 Chains inverted.

Mar. 8, 1881.
Order 221—#9

5872V 48C

200 / 1800 R

34
130
1020
34

59 / 4420 / 74
413
296
236
54
59

75
34
41 Chains inverted.

Mar. 8, 1881.
Order 221 – #10

50.62 V 48 Ω

200 / 5200 Ω

31
130
930
31

51 / 4030 / 79
357
460
459
1
51

31
48 Ohms inverted.

Mar. 8, 1881.
Order 221 – #11

56.70 V 48 Ω

200 / 7700 Ω

38 100/200

39
130
1170
39

57 / 5070 / 88
456
510
456
54
57

89
39
50 Ohms inverted.

Mar. 8, 1881.
Order 221 – #12

54 V 48 C

200 / 6000 R

30
130
54 / 3900 / 72
378 / 30
120
108
12
54

42 Ohms inserted.

Mar. 8, 1881.
Order 221 – #13

72.23 V 48 C

200 / 9600 R

48
130
1440
48
72 / 6240 / 86
576 / 87
480 / 48
432
48
72

39 Ohms inserted.

Mar. 8, 1881.
Order 221 — #14

35.77 V 48 C

200 / 2700
13 100/200

14
130
420
14
36 / 1820 / 50
180
20
36

51
14
37 Ohms inserted.

Mar. 8, 1881.
Order 221 — #15

60.95 V 42 C

200 ~~00~~ / 8500 R
42 100/200

43
130
1290
43
61 / 5590 / 91
549
100
61
39
61

92
43
49 Ohms inserted.

Mar. 8, 1881.
Order 221 – #16

4320 V 48 C

200/6 500 R

18
130
570
19

43/2470/57
215 16
320
301
19
43

38 Ohms inserted.

Mar. 8, 1881.
Order 221 – #17

4995 V 48 C

200/7 300
36 100
200

37
130
1110
37

50/4810/96
450 37
310
300
10
50

59 Ohms inserted.

Mar. 8, 1881.
Order 221-#18

54100 V

200 / 6900 R

34 100/200

35
130
1050
35

54 / 4550 / 84
432 / 35
230 / 49 Ohms inserted.
216
14
54

Mar. 8, 1881.
Order 221-#19

37180 V 450

200 / 2900 R

14 100/200

15
130
450
15

38 / 1950 / 51
190 / .15
50 / 36 Ohms inserted.
38
12
38

Mar. 8, 1881.
Order 221 — #20

61.4275

200/7300 R

36 100/200

37
130
1110
37
61/4810/78
427
540
488
52
61

79
37
42 Ohms inserted.

Mar. 8, 1881.
Order 221 — #21

50.6250489

200/6200 R

31
130
930
31
51/4030/79
357
460
459
1
51

31
48 Ohms inserted.

Mar. 8, 1881.
Order 221 – #22

64.60 V 48 e

200 | 9000 Q

45
130
1350
45

65 | 5850 | 90
585 | 45
0

45 Ohms inserted

Mar. 8, 1881.
Order 221 – #23

60.07 V 48 e

200 | 7400 R

37
160
1110
37

60 | 4810 | 81
480 | 37
10
60

43 Ohms inserted.

Mar. 8, 1881.
Order 221 — #24

50 ohm 48C

200/6400 = P

32
130
960
32
51/4160/81
408 /32
80
51
29
51

49 Ohms inserted.

Mar. 8, 1881.
Order 221 — #25

50 ohm

200/6100

30 100
200

31
130
930
31
51/4030/79
357 /31
460
459
1
51

48 Ohms inserted.

Mar. 8, 1881.
Order 221 — #26

[illegible] 40

200 / 6400 p

32
130
960

53 / 4160 / 78
32
371
450
424
26
53

46 Ohms inserted

Mar. 8, 1881.
Order 221 — #27

45 [illegible] 40

200 / 4500 p

22 100
200

23
130
690
23
45 / 2990 / 66
270
23
290
270
20
45

43 Ohms inserted.

Mar. 8, 1881.
Order 221 — #28

50.2

200/5300 Q

27 100/200

28
130
840

28
51/3640/71
357 28
70 43 Ohms inserted.
51
19
51

Mar. 8, 1881.
Order 221 — #29

33.75

200/2700 Q

13 100/200

14
130
420

14
34/1820/53
170
120 54
102 14
18 40 Ohms inserted.
34

Mar. 8, 1881.
Order 221 — #30

45.22 V 48°

200/2700

13 100/200

14
130
420
14

45/1820/40
180 14
20 26 Ohms inserted.
45

Mar. 8, 1881.
Order 221 — #31

70.87 V 48°

200/10379

51 179/200

52
130
1560
52

71/6760/95
639 52
370 43 Ohms inserted.
355
15
71

Mar. 8, 1881.
Order 221-32

59,4 V 4e

200 | 9200 R

46
130
1380
46
59 | 5980 | 101
59 46
80 55 Ohms inserted.
59
21
59

Mar. 8 1881.
Order 221-#33

54,00 V 4e

200 | 7100 R
35 100/200

36
130
1080
36
54 | 4680 | 86
432 87
360 36
324 51 Ohms inserted.
36
54

Mar. 8, 1881.
Order 221 — #34

38.38.48

200/3000

16 100/200

17
130
510
17
38/2210/58
190 17
310
304
6
38

41 Ohms inserted.

Mar. 8, 1881.
Order 221 — #35

38.38.48

200/3700

18 100/200

19
130
570
19
38/2470/65
228 19
190
190

46 Ohms inserted.

Mar. 8. 1881.
Order 221 – #36

51.97 ✓ 54 ✓

200 / 6100 R

30 100/200

31
130
930
31
52 / 4030 / 77
364
390
364
26
52

78
81
47 Ohms inserted.

Mar. 11. 1881.
No. 1 – Regular

114.75 ✓ 60 ✓

200 / 18540 R

99 40/200

99
130
2970
99
115 / 12870 / 111
115
137
115
220
115
105
115

112
99
13 Ohms inserted.

Mar. 11, 1881.
No. 2 – Regular.

114.75 V 48 Ω

1145 Ω R

13

200 / 2 0 1 4 0

100 140/200

101
130
3030
101
115 / 1313 0 / 114
115 101
163 13 Ohms inserted.
115
480
460
20
115

Mar. 11, 1881.
No. 3 – Regular.

123.52 V 48 Ω

1884 Ω

23

200 / 2 1 1 4 0

105 140/200

106
130
3180
106
124 / 1378 0 / 111
124 106
138 5 Ohms inserted.
124
140
124
16
124

Mar. 11, 1881.
No. 4 — Regular.

114.75 48c

18540
11000

200/19840
99 40/200

99
130
2970
99
115/12870/115
115
137
115
220
115
105
115

112
99
13 Ohms inserted.

Mar. 11, 1881.
No. 5 — Regular.

116.5 48c

18540
1800

200/20640
103 40/200

103
130
3090
103
116/13390/115
116
179
116
630
580
50
116

12 Ohms inserted.

Mar. 11, 1881.
No. 6 — Regular.

116 10 V 45 C

1884 U

2300

200 / 21140

105 140/200

106
130
3180
106
116 / 13780 / 118
116
218
116
1020
928
92
116

119
106
13 Ohms inserted too.

Mar. 11, 1881.
No. 7 — Regular.

130 V 20 C

2512 7

6000

200 / 31127

155 127/200

156
130
4680
156
130 / 20280 / 156
130
728
650
780
780

Mar. 11, 1881.
No. 8 — Regular.

130V 48C

18840

500

200 / 19340

96 140/200

97

130

2910

97

130 / 12610 / 97

1170

910

910

Mar. 11, 1881.
No. 9 — Regular.

118.12V 48C

18840

100

200 / 19840

99 40/200

99

130

2970

99

118 / 12870 / 109

118

1070

1062

8

118

99

10 Ohms inserted.

Mar. 11, 1881.
No. 10 – Regular.

120.82 V 48 e

1884 0

4000 Ω

200 / 2 2 8 4 0

11 4 40/200

114
130
3420
114

121 / 1 4 8 2 0 / 12.2
121
272
242
300
242
58
121

114

8 Ohms inserted.

Mar. 11, 1881.
No. 11 – Regular.

124.5 V 48

1884 0

430 Ω

200 / 2 3 1 4 0

1 1 5 140/200

116
130
3480
116

124 / 1 5 8 8 0 / 121
124
268
248
200
124
76
124

122
116

6 Ohms inserted.

Mar. 11, 1881.
No: 12 – Regular.

113.4 V 48 C

18840
8200 P

200 / 22040
110 40/200

110
130
3300
110
113 / 14300 / 126
113
300 127
226 110
740 17 Ohms inserted.
678
62
113

Mar. 11, 1881.
No. 13 – Regular.

113.4 V 48 C

18840
6000

200 / 24840
124 40/200

124
130
3720
124
113 / 16120 / 142
113
482 143
452 124
380 19 Ohms inserted.
226
74
113

Mar. 11, 1881.
No. 14 – Regular.

122.17 v 48e

18540
2600 R

200 / 21440
107 40/200

107
130
3210
107
122 / 13910 / 114
122 107
171
122
490
488
2
122

7 Ohms inserted.

Mar. 11, 1881.
No. 15 – Regular.

113.40 v 48e

18540
1200 R

200 / 20040
100 40/200

100
130
113 / 13000 / 115
113 100
170
113
570
565
5
113

15 Ohms inserted.

Mar. 11, 1881.
No. 16—Regular.

118/12 V 48 C

3400

11840 R

200 / 22240
111 40/200

111
130
3330
111
118 / 14430 / 122
118 111
263
236
270
236
34
118

11 Ohms inserted.